

09/937 265

=> d his

(FILE 'HOME' ENTERED AT 13:36:27 ON 24 AUG 2003)

FILE 'CA' ENTERED AT 13:36:36 ON 24 AUG 2003

E BAECK ANDRE C/AU
L1 72 S E2-E5
E VEGA JOSE L/AU
L2 38 S E3-E5
E TCHEOU ERIC/AU
L3 19 S E3
E BUSCH ALFRED/AU
L4 85 S E3-E4
E HEINZMAN STEPHEN W/AU
L5 61 S E2-E5
E INGRAM BARRY T/AU
L6 59 S E1, E3, E4
E STRUILLOU ARNAUD P/AU
L7 11 S E2-E4
E MARTIAN JULIAN D/AU
E MARTIN JULIAN D/AU
L8 1 S E4
E CURTIS MALCOLM/AU
L9 1 S E3
L10 6 S MONTMORILLONITE(P) (ACID OR HCL OR
HYDROCHLORIC) (P) TREAT? (P) (D
L11 14 S MONTMORILLONITE(P) (ACID OR HCL OR HYDROCHLORIC) (P) TREAT?
AND
L12 8 S L11 NOT L10
L13 12 S (MONTMORILLONITE# OR SMECTITE#) (P) (ACID? OR HCL OR
HYDROCHLOR
L14 3 S L13 NOT L11
L15 33 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR
HYDROCHLOR
L16 199 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR
HYDROCHLOR
L17 1 S L16 AND DETERGENT#
L18 22 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR
HYDROCHLOR

FILE 'USPATFULL' ENTERED AT 14:03:55 ON 24 AUG 2003

L19 4 S L10
L20 256 S L18
L21 25 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR
HYDROCHLOR
L22 26 S (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL
COMPA
L23 433 S (ROLL COMPACT? OR COMPACTED OR COMPRESSED) (6A) (CLAY# OR
SMECT
L24 3 S (ROLL COMPACT?) (6A) (CLAY# OR SMECTITE OR BENTONITE OR
MONTMOR

FILE 'CA' ENTERED AT 14:22:21 ON 24 AUG 2003

L25 9 S L22
L26 2 S L24
L27 2 S L26 NOT L25
L28 400 S (TABLET? OR SHAPED BOD? OR PELLET? OR BRIQUET?) (P) (REGION#
OR

L29 6 S DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR
BRIQUET?) (

L30 9 S L28 AND DETERGENT#

L31 3 S L30 NOT L29

FILE 'USPATFULL' ENTERED AT 14:41:53 ON 24 AUG 2003

L32 16 S L29

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L10 6 MONTMORILLONITE(P) (ACID OR HCL OR
HYDROCHLORIC) (P) TREAT? (P) (DETE
RGENT# OR SOFTEN? OR LAUNDRY OR FABRIC OR CLOTHING)

=> d 1-6 110 ti

L10 ANSWER 1 OF 6 CA COPYRIGHT 2003 ACS on STN
TI detergent compositions containing acid sensitive montmorillonite clay

L10 ANSWER 2 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Preparation and application of catalysts for preparing linear
alkylbenzenes by alkylation of benzene with linear olefins

L10 ANSWER 3 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Granular fabric softener compositions containing smectite with good
dispersibility in water and manufacture thereof

L10 ANSWER 4 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Polyamide-polyester conjugate fibers and mixture yarns of the fibers with
different heat shrinkage and polyamide fabrics with low glittering and
dry handle and high bulk from them and manufacture of the fabrics

L10 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN
TI High-whiteness alkali aluminosilicate from a clay mineral containing iron

L10 ANSWER 6 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Clay composition

=>

=> d 1-8 112 ti

L12 ANSWER 1 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Synthesis of Zeolite 4A for **detergents** from montmorillonite

L12 ANSWER 2 OF 8 CA COPYRIGHT 2003 ACS on STN
TI **Softening** finishing agents for fabrics with good retention of water absorbance

L12 ANSWER 3 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Yellowing-free **softening** agents for hydrophilic fabrics

L12 ANSWER 4 OF 8 CA COPYRIGHT 2003 ACS on STN
TI **Softening** agent compositions for hydrophilic fabrics

L12 ANSWER 5 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Product and process for treating a waste aqueous dispersion with montmorillonite

L12 ANSWER 6 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Treating fibrous cellulosic materials with a montmorillonite clay and a cationic germicide

L12 ANSWER 7 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Treatment of cotton fibrous materials with montmorillonite clays and a polyamine or poly(quaternary ammonium) compound

L12 ANSWER 8 OF 8 CA COPYRIGHT 2003 ACS on STN
TI Biodegradable alkylbenzenesulfonates

=>

L14 ANSWER 3 OF 3 CA COPYRIGHT 2003 ACS on STN
AN 87:137639 CA
TI Synthetic zeolites for **detergent** builders
IN Sugawara, Yujiro; Nakazawa, Tadahisa; Usui, Koichi; Nato, Hiroyuki;
Ogawa,
Masahide
PA Mizusawa Industrial Chemicals, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C11D003-08
CC 46-6 (Surface Active Agents and Detergents)
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI JP 52062314 | A2 | 19770523 | JP 1975-137813 | 19751118 |
| JP 55018277 | B4 | 19800517 | | |
| PRAI JP 1975-137813 | | 19751118 | | |

AB **Smectite**-type clay is **treated** with **acid** until the x-ray diffraction peaks from (001) disappear and the Al₂O₃:SiO₂ molar ratio reaches 1:11-99, ground to size distributions of >20 wt.% <5 .mu. and <30% >20 .mu., Al₂O₃ and Na₂O added to satisfy zeolite compns., and heated to give zeolites having size distributions of >40% <5 .mu. and <30% >8 .mu., which were useful as **detergent** builders. Thus, 76.5 g acidic white clay (SiO₂ 72.1, Al₂O₃ 14.2, Fe₂O₃ 3.87, MgO 3.25, and CaO 1.06%) was treated 10 h with 200 mL of 50% H₂SO₄ at 90.degree., washed with H₂O, dispersed in H₂O, beaten 20 min in a blender to give a powder contg. 48.3% <5-.mu.-diam and 51.7% 5-20 .mu.-diam. particles having no x-ray defraction from (001). Na aluminate and NaOH were added to a slurry of the above powder to make the molar ratios of Na₂O-SiO₂, SiO₂-Al₂O₃, and H₂O-Na₂O 0.9, 2.0, and 50.0, resp., at 20.degree.., heated 3 h at 95.degree., filtered out, and dried to give a zeolite powder contg. 71.2% of .ltoreq.5 and .gtoreq.8 .mu.-diam. particles which had excellent rinse. ST zeolite **detergent** builder; clay zeolite synthesis IT **Detergents** (builders for, synthetic zeolites as) IT Zeolites, preparation RL: PREP (Preparation) (manuf. of synthetic, for **detergent** builders) IT Clays, uses and miscellaneous RL: USES (Uses) (zeolite manufd. from, for **detergent** builders)

=>

L18 ANSWER 15 OF 22 CA COPYRIGHT 2003 ACS on STN

AN 98:108841 CA

TI Acid-treated clays as **fabric softeners**

PA Lion Corp., Japan; Kunimine Kogyo K. K.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC D06M013-20; C11D003-12; D06M011-06

CC 40-9 (Textiles)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 57167454 | A2 | 19821015 | JP 1981-50297 | 19810403 |
| | JP 63039708 | B4 | 19880808 | | |

PRAI JP 1981-50297 19810403

AB Montmorillonite clays purified with mixts. contg. HCl and citric acid [77-92-9] are useful for **softening** fabrics without yellowing. Thus, 100 g bentonite clays were purified with a mixt. of 5.0 g citric anhydride [24555-16-6] and 35.0 g conc. HCl and washed. Yellowing did not occur on **softening** laundered towels with the purified clays, whereas yellowing occurred for towels **softened** with clays purified with HCl only.

ST bentonite **fabric softener**; garment **softener** bentonite; towel **softener** bentonite; yellowing prevention **fabric softening**; purifn bentonite **fabric softener**; hydrochloric acid bentonite purifn; citric acid bentonite purifn

IT **Softening** agents

(for **fabrics**, acid-purified bentonite as)

IT Bentonite, uses and miscellaneous

RL: PUR (Purification or recovery); PREP (Preparation)

(purifn. of, with hydrochloric acid and citric acid, for **fabric softeners**)

IT Wearing apparel

(**softeners** for, acid-purified bentonite as)

IT Discoloration prevention

(yellowing, in **softening** of **fabrics** with bentonite, by hydrochloric and citric acids)

IT 7647-01-0P, uses and miscellaneous 24555-16-6P

RL: PREP (Preparation); USES (Uses)

(purifn. by citric acid and, of bentonite **fabric softeners**)

IT 77-92-9P, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(purifn. by hydrochloric acid and, of bentonite **fabric softeners**)

=>

L18 ANSWER 15 OF 22 CA COPYRIGHT 2003 ACS on STN

AN 98:108841 CA

TI Acid-treated clays as **fabric softeners**

PA Lion Corp., Japan; Kunimine Kogyo K. K.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC D06M013-20; C11D003-12; D06M011-06

CC 40-9 (Textiles)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | JP 57167454 | A2 | 19821015 | JP 1981-50297 | 19810403 |
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PRAI JP 1981-50297 19810403

AB Montmorillonite clays purified with mixts. contg. HCl and citric acid [77-92-9] are useful for **softening** fabrics without yellowing. Thus, 100 g bentonite clays were purified with a mixt. of 5.0 g citric anhydride [24555-16-6] and 35.0 g conc. HCl and washed. Yellowing did not occur on **softening** laundered towels with the purified clays, whereas yellowing occurred for towels **softened** with clays purified with HCl only.

ST bentonite **fabric softener**; garment **softener**
bentonite; towel **softener** bentonite; yellowing prevention
fabric softening; purifn bentonite **fabric**
softener; hydrochloric acid bentonite purifn; citric acid
bentonite purifn

IT **Softening** agents

(for **fabrics**, acid-purified bentonite as)

IT Bentonite, uses and miscellaneous

RL: PUR (Purification or recovery); PREP (Preparation)

(purifn. of, with hydrochloric acid and citric acid, for **fabric**
softeners)

IT Wearing apparel

(**softeners** for, acid-purified bentonite as)

IT Discoloration prevention

(yellowing, in **softening** of **fabrics** with bentonite,
by hydrochloric and citric acids)

IT 7647-01-0P, uses and miscellaneous 24555-16-6P

RL: PREP (Preparation); USES (Uses)

(purifn. by citric acid and, of bentonite **fabric**
softeners)

IT 77-92-9P, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(purifn. by hydrochloric acid and, of bentonite **fabric**
softeners)

=>

L19 4 MONTMORILLONITE(P) (ACID OR HCL OR
HYDROCHLORIC) (P) TREAT? (P) (DETE
RGENT# OR SOFTEN? OR LAUNDRY OR FABRIC OR CLOTHING)

=> d 1-4 119 ti

L19 ANSWER 1 OF 4 USPATFULL on STN
TI Wash cycle unit dose softener

L19 ANSWER 2 OF 4 USPATFULL on STN
TI Air cleaning apparatus, air filter and method for manufacturing the
same

L19 ANSWER 3 OF 4 USPATFULL on STN
TI Non-brittle laundry bars comprising coconut alkyl sulfate and
polyethylene glycol

L19 ANSWER 4 OF 4 USPATFULL on STN
TI Laundry bars with polyethylene glycol as a processing aid

=>

=> d 1-25 121 ti

- L21 ANSWER 1 OF 25 USPATFULL on STN
TI Process for preparing heterocycles
- L21 ANSWER 2 OF 25 USPATFULL on STN
TI Hydrocarbon recovery from corrosive effluent stream
- L21 ANSWER 3 OF 25 USPATFULL on STN
TI Isomerization process with improved chloride recovery
- L21 ANSWER 4 OF 25 USPATFULL on STN
TI Hydrocarbon conversion with additive loss prevention
- L21 ANSWER 5 OF 25 USPATFULL on STN
TI Fabric softening products based on a combination of pentaerythritol compound and bentonite
- L21 ANSWER 6 OF 25 USPATFULL on STN
TI Hydrocarbon conversion with additive loss prevention
- L21 ANSWER 7 OF 25 USPATFULL on STN
TI Method of fabricating a porous clay composite including inorganic particles with metal particles deposited thereon
- L21 ANSWER 8 OF 25 USPATFULL on STN
TI Sandalwood odorants
- L21 ANSWER 9 OF 25 USPATFULL on STN
TI Process for regenerating a catalyst used in production of olefins by catalytic ether decomposition
- L21 ANSWER 10 OF 25 USPATFULL on STN
TI Highly attrition resistant mesoporous catalytic cracking catalysts
- L21 ANSWER 11 OF 25 USPATFULL on STN
TI Increasing the level of 2-methyl-2-butene in isoamylene
- L21 ANSWER 12 OF 25 USPATFULL on STN
TI Process for regenerating a catalyst and resultant regenerated catalyst and production of olefins by catalytic ether decomposition using regenerated catalyst
- L21 ANSWER 13 OF 25 USPATFULL on STN
TI Sandalwood odorants
- L21 ANSWER 14 OF 25 USPATFULL on STN
TI Sandalwood odorants
- L21 ANSWER 15 OF 25 USPATFULL on STN
TI Sandalwood odorants
- L21 ANSWER 16 OF 25 USPATFULL on STN
TI Thickened acid cleaner compositions containing quaternary ammonium germicides and having improved thermal stability
- L21 ANSWER 17 OF 25 USPATFULL on STN

TI Process for the transalkylation or dealkylation of alkyl aromatic hydrocarbons

L21 ANSWER 18 OF 25 USPATFULL on STN
TI Process for the conversion of a C._{sub.2} to C._{sub.10} aliphatic linear olefin to a product comprising hydrocarbons of higher carbon number

L21 ANSWER 19 OF 25 USPATFULL on STN
TI Alkali metal aluminosilicate detergent builder

L21 ANSWER 20 OF 25 USPATFULL on STN
TI Mineral stabilized resin emulsion

L21 ANSWER 21 OF 25 USPATFULL on STN
TI Method for acidizing a subterranean formation

L21 ANSWER 22 OF 25 USPATFULL on STN
TI Process for the production of .alpha., .alpha., .alpha., .alpha.', .alpha.',.alpha.'-hexakisaryl-1,3- and -1,4-dimethyl benzenes

L21 ANSWER 23 OF 25 USPATFULL on STN
TI Process for the production of .alpha., .alpha., .alpha., .alpha.', .alpha.',.alpha.', -hexakisaryl-1,3-and-1,4-dimethyl benzenes

L21 ANSWER 24 OF 25 USPATFULL on STN
TI METHOD OF MANUFACTURING ALCOHOLS

L21 ANSWER 25 OF 25 USPATFULL on STN
TI PROCESS OF DYEING CELLULOSIC FIBERS WITH MONTMORILLONITE CLAY AND A POLYMERIZED FATTY NITROZEN COMPOUND AND PRODUCTS OBTAINED THEREBY

=>

22 26 (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL COMPACT?
 OR COMPACTED OR COMPRESSED OR PELLET? OR BRIQUET?) (6A) (CLAY#
 OR SMECTITE OR BENTONITE OR MONTMORILLONITE OR LAVIOSA OR
GELWHI
 TE OR SAPONITE)

=> d 1-26 122 ti

L22 ANSWER 1 OF 26 USPATFULL on STN
TI Cleaning compositions

L22 ANSWER 2 OF 26 USPATFULL on STN
TI Detergent compositions

L22 ANSWER 3 OF 26 USPATFULL on STN
TI Multifunctional, granulated pellet aid and process

L22 ANSWER 4 OF 26 USPATFULL on STN
TI ELONGATED LIQUID ABSORBENT PAD AND SYSTEM FOR COLLECTING LEAKS AND
 SPILLS

L22 ANSWER 5 OF 26 USPATFULL on STN
TI Pollution remedial composition and its preparation

L22 ANSWER 6 OF 26 USPATFULL on STN
TI Lipid pelletization methods, apparatus and products

L22 ANSWER 7 OF 26 USPATFULL on STN
TI Lipid pelletization methods, apparatus and products

L22 ANSWER 8 OF 26 USPATFULL on STN
TI Shaped wood-based active carbon

L22 ANSWER 9 OF 26 USPATFULL on STN
TI Method and materials for enhancement of plant growth characteristics

L22 ANSWER 10 OF 26 USPATFULL on STN
TI Use of alkyl(aminocarbonyl)phosphonate salts in rice culture for the
 control of problem herbaceous plant growth

L22 ANSWER 11 OF 26 USPATFULL on STN
TI Sulphur pelletization process

L22 ANSWER 12 OF 26 USPATFULL on STN
TI Carbamoylphosphonates

L22 ANSWER 13 OF 26 USPATFULL on STN
TI Herbicidal halo-di-alkyl benzenesulfonamides

L22 ANSWER 14 OF 26 USPATFULL on STN
TI Plant growth regulant carbamoylphosphonates

L22 ANSWER 15 OF 26 USPATFULL on STN
TI Plant growth regulant carbamoylphosphonates

L22 ANSWER 16 OF 26 USPATFULL on STN
TI Carbamoylphosphonates

- L22 ANSWER 17 OF 26 USPATFULL on STN
TI Cyanobenzeneacetonitriles
- L22 ANSWER 18 OF 26 USPATFULL on STN
TI Carbamoylphosphonates
- L22 ANSWER 19 OF 26 USPATFULL on STN
TI 4-Halo-2,5-dialkyl-benzeneacetonitriles
- L22 ANSWER 20 OF 26 USPATFULL on STN
TI Cyano-and cyanomethyl-benzensulfonamides
- L22 ANSWER 21 OF 26 USPATFULL on STN
TI Herbicidal compositions and methods
- L22 ANSWER 22 OF 26 USPATFULL on STN
TI Herbicidal compounds, compositions and methods
- L22 ANSWER 23 OF 26 USPATFULL on STN
TI PHOSPHONAMIDE PLANT GROWTH REGULANTS
- L22 ANSWER 24 OF 26 USPATFULL on STN
TI CARBAMOYLPHOSPHONATES
- L22 ANSWER 25 OF 26 USPATFULL on STN
TI PLANT GROWTH REGULANT CARBAMOYLPHOSPHONATES
- L22 ANSWER 26 OF 26 USPATFULL on STN
TI METHOD OF INCREASING SUGAR CONTENT OF CROPS

=>

L25 9 (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL
COMPACT?
OR COMPACTED OR COMPRESSED OR PELLET? OR BRIQUET?) (6A) (CLAY#
OR SMECTITE OR BENTONITE OR MONTMORILLONITE OR LAVIOSA OR
GELWHI
TE OR SAPONITE)

=> d 1-9 125 ti

L25 ANSWER 1 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Process for production of **detergent tablets** containing
clay perfume carrier

L25 ANSWER 2 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Multifunctional granulated pellet aid and process

L25 ANSWER 3 OF 9 CA COPYRIGHT 2003 ACS on STN
TI **Detergent tablet** compositions containing smectite
clays

L25 ANSWER 4 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Detergent compositions for cleaning and softening of fabrics

L25 ANSWER 5 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Detergent compositions for cleaning, whitening, and softening of fabrics

L25 ANSWER 6 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Cleaning compositions and tablets

L25 ANSWER 7 OF 9 CA COPYRIGHT 2003 ACS on STN
TI **Detergent tablets** containing bentonite disintegration
aid, their production and their use

L25 ANSWER 8 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Granular nonionic detergent composition and its production method

L25 ANSWER 9 OF 9 CA COPYRIGHT 2003 ACS on STN
TI Manufacture of high-bulk granular detergent compositions

=>

L25 ANSWER 7 OF 9 CA COPYRIGHT 2003 ACS on STN
AN 133:283309 CA
TI **Detergent tablets** containing bentonite disintegration aid, their production and their use
IN Lietzmann, Andreas; Artiga Gonzales, Rene; Block, Christian; Kruse, Hans-Friedrich
PA Henkel K.-G.a.A., Germany
SO Ger. Offen., 18 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM C11D017-00
ICS C11D003-08; C11D001-83
CC 46-5 (Surface Active Agents and Detergents)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------|------|----------|------------------|----------|
| PI | DE 19915321 | A1 | 20001005 | DE 1999-19915321 | 19990403 |
| PRAI | DE 1999-19915321 | | 19990403 | | |

AB **Detergent tablets** esp. for laundering, which are characterized by high hardness and at the same time short dissolving time,

are produced which contain 1-10% bentonites, whereby at least 70 wt.% of the bentonite has a particle size between 400 and 1600 .mu.m. An example was given which contained anionic and nonionic surfactants and **bentonite** which had been **compacted** to increase the majority of the particles to a size of >0.6 mm. The compaction decreased the **tablet** dissoln. time from >120 s to 33 s.

ST **detergent tablet** dissolving aid **compacted bentonite**

IT **Bentonite**, uses

RL: MOA (Modifier or additive use); USES (Uses)
(Ex 0030; **compacted bentonite** disintegration aids for **detergent tablets**)

IT **Bentonite**, uses

RL: MOA (Modifier or additive use); USES (Uses)
(ammonium-treated; **compacted bentonite** disintegration aids for **detergent tablets**)

IT Surfactants

(anionic; in **detergent tablets** contg.
compacted bentonite disintegration aids)

IT Phyllosilicate minerals

RL: MOA (Modifier or additive use); USES (Uses)
(in **compacted bentonite** disintegration aids for **detergent tablets**)

IT Detergents

(laundry, tablets; **detergent tablets** contg. **compacted bentonite** disintegration aids)

IT Surfactants

(nonionic; in **detergent tablets** contg.
compacted bentonite disintegration aids)

IT Silicates, uses

RL: MOA (Modifier or additive use); USES (Uses)
(phyllo-; in **compacted bentonite** disintegration aids for **detergent tablets**)

IT 1318-93-0, **Montmorillonite**, uses 9004-34-6, Cellulose, uses
RL: MOA (Modifier or additive use); USES (Uses)

(in **compacted bentonite** disintegration aids for
detergent tablets)

=>

L25 ANSWER 8 OF 9 CA COPYRIGHT 2003 ACS on STN
AN 131:324160 CA
TI Granular nonionic detergent composition and its production method
IN Takahashi, Tomonori; Horie, Hiromichi; Masui, Hiroyuki
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C11D003-12
ICS C11D001-72; C11D001-722; C11D001-74; C11D003-30; C11D003-33;
C11D003-36; C11D011-00; C11D017-06
CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 11302686 | A2 | 19991102 | JP 1998-107364 | 19980417 |
| PRAI | JP 1998-107364 | | 19980417 | | |

AB The detergent can be manufd. either by pelletizing a mixt. contg. nonionic surfactants, layered clay minerals, and transition metal chelating agents, or extruding the mixt. and pulverizing the extrudates. The detergent granules have good flowability.

ST granular detergent nonionic surfactant; transition metal chelating agent
granular detergent

IT Bentonite, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(Bengel 23; prodn. of nonionic granular detergents with good
flowability)

IT Detergents

(granular; prodn. of nonionic granular detergents with good
flowability)

IT Surfactants

(nonionic; prodn. of nonionic granular detergents with good
flowability)

IT Chelating agents

(prodn. of nonionic granular detergents with good flowability)

IT 60-00-4, EDTA, uses 67-43-6, Diethylenetriamine pentaacetic acid
2809-21-4, Hydroxyethanediphosphonic acid

RL: TEM (Technical or engineered material use); USES (Uses)
(chelating agent; prodn. of nonionic granular detergents with good
flowability)

IT 9002-92-0, Polyethylene glycol monododecyl ether

RL: TEM (Technical or engineered material use); USES (Uses)
(prodn. of nonionic granular detergents with good flowability)

=>

L29 6 DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR
BRIQUET?) (P) (REGION# OR PHASE# OR LAYER?) (P) (CLAY# OR SMECTITIE OR
BENTONITE OR MONMORILLONITE OR SAPONITE OR HECTORITE)

=> d 1-6 129 ti

L29 ANSWER 1 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Process for production of detergent tablets containing clay perfume
carrier

L29 ANSWER 2 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Laundry tablet cleaning compositions

L29 ANSWER 3 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Detergent compositions for cleaning and softening of fabrics

L29 ANSWER 4 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Detergent compositions for cleaning, whitening, and softening of fabrics

L29 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Granular nonionic detergent composition and its production method

L29 ANSWER 6 OF 6 CA COPYRIGHT 2003 ACS on STN
TI Organic sulfonic acids and their salts

=>

L29 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN
 AN 131:324160 CA
 TI Granular nonionic detergent composition and its production method
 IN Takahashi, Tomonori; Horie, Hiromichi; Masui, Hiroyuki
 PA Lion Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C11D003-12
 ICS C11D001-72; C11D001-722; C11D001-74; C11D003-30; C11D003-33;
 C11D003-36; C11D011-00; C11D017-06
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 11302686 | A2 | 19991102 | JP 1998-107364 | 19980417 |
| PRAI | JP 1998-107364 | | 19980417 | | |

AB The detergent can be manufd. either by pelletizing a mixt. contg. nonionic surfactants, layered clay minerals, and transition metal chelating agents, or extruding the mixt. and pulverizing the extrudates. The detergent granules have good flowability.
 ST granular detergent nonionic surfactant; transition metal chelating agent granular detergent
 IT Bentonite, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Bengel 23; prodn. of nonionic granular detergents with good flowability)
 IT Detergents
 (granular; prodn. of nonionic granular detergents with good flowability)
 IT Surfactants
 (nonionic; prodn. of nonionic granular detergents with good flowability)
 IT Chelating agents
 (prodn. of nonionic granular detergents with good flowability)
 IT 60-00-4, EDTA, uses, 67-43-6, Diethylenetriamine pentaacetic acid
 2809-21-4, Hydroxyethanediphosphonic acid
 RL: TEM (Technical or engineered material use); USES (Uses)
 (chelating agent; prodn. of nonionic granular detergents with good flowability)
 IT 9002-92-0, Polyethylene glycol monododecyl ether
 RL: TEM (Technical or engineered material use); USES (Uses)
 (prodn. of nonionic granular detergents with good flowability)

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L32 16 DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR
BRIQUET?) (P) (REGION# OR PHASE# OR LAYER?) (P) (CLAY# OR SMECTITIE OR
BENTONITE OR MONMORILLONITE OR SAPONITE OR HECTORITE)

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L32 ANSWER 1 OF 16 USPATFULL on STN
TI Detergent tablet

L32 ANSWER 2 OF 16 USPATFULL on STN
TI Cleaning compositions

L32 ANSWER 3 OF 16 USPATFULL on STN
TI Process for preparing household detergent or cleaner shapes

L32 ANSWER 4 OF 16 USPATFULL on STN
TI Mechanical warewashing compositions containing scale inhibiting
polymers
with targeted rinse cycle delivery

L32 ANSWER 5 OF 16 USPATFULL on STN
TI Moulded body dishwasher detergents with soil release polymers

L32 ANSWER 6 OF 16 USPATFULL on STN
TI Detergent compositions

L32 ANSWER 7 OF 16 USPATFULL on STN
TI Process of treating fabrics with a detergent tablet comprising an ion
exchange resin

L32 ANSWER 8 OF 16 USPATFULL on STN
TI Detergent compositions

L32 ANSWER 9 OF 16 USPATFULL on STN
TI Detergent compositions

L32 ANSWER 10 OF 16 USPATFULL on STN
TI ELONGATED LIQUID ABSORBENT PAD AND SYSTEM FOR COLLECTING LEAKS AND
SPILLS

L32 ANSWER 11 OF 16 USPATFULL on STN
TI Compacted granulate, process for making same and use as disintegrating
agent for pressed detergent tablets, cleaning agent tablets for
dishwashers, water softening tablets and scouring salt tablets

L32 ANSWER 12 OF 16 USPATFULL on STN
TI Compacted granulate, process for making same and use as disintegrating
agent for pressed detergent tablets, cleaning agent tablets for
dishwashers, water softening tablets or scouring salt tablets

L32 ANSWER 13 OF 16 USPATFULL on STN
TI Tablet containing builders

L32 ANSWER 14 OF 16 USPATFULL on STN
TI Pollution remedial composition and its preparation

L32 ANSWER 15 OF 16 USPATFULL on STN
TI Process for the production of linear alkylbenzenes

L32 ANSWER 16 OF 16 USPATFULL on STN
TI Copolymers and detergent compositions containing them

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